

Electrolysis & Fuel Cell Discussions

Challenges towards zero platinum for oxygen reduction

Chairs

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The 2015 edition of the **Electrolysis and Fuel Cell Discussions** conference is dedicated to ultra-low platinum loading and non-platinum-group metal catalysts, and focuses on oxygen reduction in low temperature fuel cells. It also celebrates the 50th anniversary of Jasinski's discovery on the activity of cobalt phthalocyanine, which paved the way for the class of metal-nitrogen-carbon catalysts. The conference will be the opportunity to present recent results in the field and to discuss the scientific and technological challenges on the way towards zero platinum loading. Invited lectures, oral and poster presentations will provide an international perspective of the most recent research activities in this fast-moving area.

- TOPICS COVERED WILL INCLUDE -

- Cathode catalysts for proton- or anion exchange membrane fuel cells
 - Non-PGM catalysts
 - Ultra-low PGM-loading catalysts
 - Hybrid PGM & non-PGM approaches
- Modelling of catalytic sites and reaction pathways
 - Advanced characterisation techniques
- Mass-transport issues for non-PGM and ultra-low PGM loadings
 - Ageing and durability
- Catalysts free of platinum-group-metals for PEM electrolyzers